

**SECTION 8-20, ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND
ELECTRICAL
May 28, 1996**

8-20.1(2) Industry Codes and Standards

This section is supplemented with the following:

International Municipal Signal Association (IMSA), P.O. Box 539, 1115 North Main Street, Newark, NY 14513.

8-20.3(4) Foundations

The seventh paragraph is deleted and replaced by the following:

Anchor bolts shall be installed so that two full threads extend above the top of the top heavy-hex nut. Anchor bolts shall be installed plumb, plus or minus 1 degree.

Plumbing of standards shall be accomplished by adjusting leveling nuts. Shims or other similar devices for plumbing or raking will not be permitted. After placement of the standard and prior to placing the grout pad, the portion of the anchor bolts above the foundation shall be coated with a heavy body corrosion resistant grease as approved by the Engineer.

The top heavy-hex nuts shall be tightened in accordance with Section 6-03.3(33). The top heavy-hex nuts for bolts that are 1-1/2 inches or less in diameter shall be installed using the Direct-Tension-Indicator Method. A hardened washer shall be used between the top nut and the direct-tension-indicator. The top heavy-hex nuts for bolts that are 1-3/4 inches or greater in diameter shall be tightened by the Turn-of-Nut Tightening Method to minimum rotation of 1/4 turn and a maximum rotation of 1/3 turn past snug tight. Permanent marks shall be set on the base plate and nuts to indicate nut rotation past snug tight.

8-20.3(5) Conduit

The first sentence of the fifth paragraph is revised to read:

All conduit ends shall be threaded and capped with standard threaded conduit couplings or threaded conduit caps until wiring is started.

Item no. 5 of the 15th paragraph is revised to read:

Trenches located within paved roadway areas shall be backfilled with 3 inches of sand over the conduit, followed by controlled density fill meeting the requirements of Section 2-09.3(1)E. The controlled density fill shall be placed level to, and 3 inches below, the surface of the remaining pavement, followed by 3 inches of paving material that matches the existing pavement.

8-20.3(12) Painting

The third paragraph is deleted.

8-20.3(13)A Light Standards

Item No. 8 is deleted.

8-20.3(14)B Signal Heads

The first paragraph is deleted.

The word "directed" in the first sentence of the second paragraph is changed to "ordered".

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2 This section is supplemented with the following:

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4 The signal head covering material shall be of sufficient size to entirely cover the
5 display. The covering shall extend over all edges of the signal housing and shall
6 be securely fastened on the back.

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8 **8-20.3(14)E Signal Standards**

9 Item No. 13 is deleted.

10
11 **8-20.5 Payment**

12 In the paragraph directly following No. 4, "Conduit ____ In. Diam." is revised to read
13 "Conduit Pipe ____ In. Diam.".